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Assistant Commissioner for Patents
Box Assignments
Washington, D.C. 20231

Attorney Docket No. 4115-1031-103-105

1. A. Name of conveying party(ies):

Gil H. Choi
Donald L. Nuss

B. Additional name(s) of conveying
party(ies) attached? ☐ Yes ☒ No

2. A. Name and address of receiving party(ies):

University of Maryland Biotechnology Institute
725 West Lombard Street
Baltimore, Maryland 21201

B. Additional name(s) & address(es) attached?
☐ Yes ☒ No

3. A. Nature of conveyance:

☒ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name

☐ Other: _____

B. Execution Date: January 20, 1998

4. A. If this document is being filed together with a new application, the execution date of the
application is: _____

B. Patent Application No.(s)

07/832,117
08/459,065
08/459,146

C. Patent No.(s)

D. Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom
correspondence
concerning document should be mailed:

Name: Steven J. Hultquist
Address: Intellectual Property/Technology Law
P.O. Box 14329
Research Triangle Park, NC 27709

7. A. Total fee (37 CFR 3.41) \$ 80.00

☒ Enclosed (Check No. 5384)

☐ Authorized to be charged to deposit account

6. Total number of applications and patents
involved: 3

8. **Credit any overpayment or charge any
underpayment to Deposit Account Number 08-3284
of Intellectual Property/Technology Law.**

11/02/1998 INGIEN 00000174 07832117

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached
copy is a true copy of the original document.*

Bill B. Barrett
William A. Barrett

Date: 12 October, 1998

Registration No. 42,296

Total number of pages including cover sheet, attachments, and document: 2

PATENT
REEL: 9546 FRAME: 0138

A S S I G N M E N T

WHEREAS, WE, GIL HO CHOI and DONALD LEE NUSS

(Assignors) have invented certain new and useful improvements in

GENETICALLY ENGINEERED TRANSMISSIBLE HYPOVIRULENCE

which are described and claimed in application for United States Letters Patent in respect of which a Declaration and Power of Attorney was executed on even date herewith; and

WHEREAS, HOFFMANN-LA ROCHE INC., a corporation organized and existing under and by virtue of the laws of the State of New Jersey, and having its principal place of business at Nutley, New Jersey, is desirous of acquiring the entire interest in and to said invention, said application and the Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration to us in hand paid, the receipt and sufficiency whereof are hereby acknowledged, we have sold, assigned, and set over, and by these presents do hereby sell, assign, and set over unto the said HOFFMANN-LA ROCHE INC. (Assignee), and said Assignee's legal representatives, successors, and assigns, the entire right, title and interest, for the whole world, in and to said invention and said application and the patents, both domestic and foreign, that may or shall result therefrom including the right to claim in respect of any subsequent corresponding foreign patent applications and patents, the priority date of said application under any international convention or treaty; and we do hereby authorize and request the issuance of said patents, domestic and foreign, conformably to the terms of this Agreement.

UPON SAID CONSIDERATION, we do hereby covenant and agree with the said Assignee that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we will at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, re-examined or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, including but not limited to, giving testimony in any proceedings or transactions involving such applications or patents, and executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals this
6th day of February, 1992.

Nutley, New Jersey, U.S.A.



GIL HO CHOI



DONALD LEE NUSS